

Adding and Subtracting Fractions with Unlike Denominators

Simplify. Write each answer in lowest terms.

1. $\frac{3}{5} - \frac{1}{3}$ _____ 2. $\frac{1}{2} + \frac{7}{22}$ _____ 3. $\frac{9}{16} - \frac{1}{8}$ _____ 4. $\frac{3}{5} - \frac{4}{9}$ _____

5. $\frac{1}{5} - \frac{1}{7}$ _____ 6. $\frac{11}{24} + \frac{1}{3}$ _____ 7. $\frac{1}{3} - \frac{1}{10}$ _____ 8. $\frac{7}{10} - \frac{3}{5}$ _____

9. $\frac{8}{9} - \frac{7}{12}$ _____ 10. $\frac{5}{6} - \frac{1}{2}$ _____ 11. $\frac{7}{10} + \frac{2}{25}$ _____ 12. $\frac{4}{5} + \frac{1}{10}$ _____

13. $\frac{5}{8} - \frac{1}{3}$ _____ 14. $\frac{1}{6} + \frac{9}{16}$ _____ 15. $\frac{1}{2} + \frac{5}{11}$ _____ 16. $\frac{1}{6} + \frac{17}{24}$ _____

17. $\frac{1}{7} + \frac{2}{3}$ _____ 18. $\frac{1}{5} + \frac{3}{5}$ _____ 19. $\frac{1}{7} - \frac{1}{9}$ _____ 20. $\frac{5}{7} - \frac{1}{2}$ _____

21. $\frac{1}{2} - \frac{5}{11}$ _____ 22. $\frac{1}{9} + \frac{2}{3}$ _____ 23. $\frac{1}{4} - \frac{1}{11}$ _____ 24. $\frac{5}{13} + \frac{2}{5}$ _____

25. $\frac{5}{6} - \frac{4}{15}$ _____ 26. $\frac{13}{14} - \frac{1}{2}$ _____ 27. $\frac{7}{8} - \frac{1}{2}$ _____ 28. $\frac{1}{4} + \frac{3}{10}$ _____

29. $\frac{1}{5} - \frac{1}{13}$ _____ 30. $\frac{1}{5} + \frac{1}{6}$ _____ 31. $\frac{2}{7} + \frac{1}{3}$ _____ 32. $\frac{6}{25} - \frac{1}{10}$ _____

33. $\frac{14}{15} - \frac{2}{3}$ _____ 34. $\frac{14}{15} - \frac{7}{10}$ _____ 35. $\frac{4}{5} + \frac{1}{25}$ _____ 36. $\frac{1}{6} + \frac{3}{10}$ _____

Find the missing numerators.

37. $\frac{5}{6} + \frac{4}{7} = \frac{\square}{42} + \frac{\square}{42}$ 38. $\frac{1}{5} - \frac{1}{14} = \frac{\square}{70} - \frac{\square}{70}$ 39. $\frac{3}{4} - \frac{5}{9} = \frac{\square}{36} - \frac{\square}{36}$

40. $\frac{3}{5} + \frac{3}{7} = \frac{\square}{35} + \frac{\square}{35}$ 41. $\frac{4}{9} - \frac{2}{5} = \frac{\square}{45} - \frac{\square}{45}$ 42. $\frac{1}{8} + \frac{5}{6} = \frac{\square}{24} + \frac{\square}{24}$

43. $\frac{4}{5} - \frac{3}{20} = \frac{\square}{20} - \frac{\square}{20}$ 44. $\frac{2}{3} - \frac{1}{15} = \frac{\square}{15} - \frac{\square}{15}$ 45. $\frac{4}{9} + \frac{1}{3} = \frac{\square}{9} + \frac{\square}{9}$

46. $\frac{5}{6} - \frac{2}{15} = \frac{\square}{30} - \frac{\square}{30}$ 47. $\frac{1}{4} + \frac{3}{7} = \frac{\square}{28} + \frac{\square}{28}$ 48. $\frac{5}{6} - \frac{3}{4} = \frac{\square}{12} - \frac{\square}{12}$

49. Randy spends $\frac{1}{3}$ of his week sleeping and $\frac{5}{21}$ of his week working. What fraction of the week is left for other activities? _____

50. **Geography** The three states with the largest areas are Alaska ($\frac{4}{25}$ of U.S. area), Texas ($\frac{2}{27}$ of U.S. area), and California ($\frac{2}{45}$ of U.S. area). What fraction of U.S. area do these states make up altogether? _____